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(54) REACTION INJECTION MOLDING METHOD

(57)Abstract:

PURPOSE: To enhance molding properties and surface properties by applying a release agent with an organic fluorine compound as effective component to a mold and then molding in the reaction injection molding method in which a molding material with a norbornene monomer as main component is injected into the mold and molded.

CONSTITUTION: A mold is made from aluminum and with a flat plate-shaped cavity. The mold surface is set in the state of being mold-opened before injecting a molding material, and various kinds of fluorine component release agents such as methypolyoxyethylene perfluoro nonyl ether and the like are sprayed, and a solvent is kept in the state of being evaporated. The mold temperature is set at 70°C, and the mold is closed and the molding material including cyclopentadiene as monomer is injected therein, and the mold is opened after setting reaction is carried out for 90 seconds. A flat molded product manufactured after the completion of molding is released from the mold, and release properties, surface condition of the molded product and coating properties at that time are evaluated. All the results are good.

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